

Top Secret



DIRECTORATE OF
INTELLIGENCE

Imagery Analysis Service Notes

1 September 1967

Declass Review by NIMA / DoD



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The IMAGERY ANALYSIS SERVICE NOTES is a periodic publication of the DDI Imagery Analysis Service, the departmental PI organization of CIA.

This publication highlights significant or timely intelligence items derived from photography.

The interpretations in this publication represent preliminary views which are subject to modification in the light of further information and more complete analysis.

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USSR

Status of Conversion of Kotlin Class Destroyers to a Guided Missile Configuration

A review of all available [] photography of Kommuna Shipyard 445 in Nikolayev and Vladivostok Shipyard 202 reveals that the conversion of Kotlin Class Destroyers (DD) to Guided Missile Destroyers (DDG) possibly began [] at Nikolayev and [] at Vladivostok. Large-scale [] coverage of Nikolayev [] and Vladivostok [] confirmed the conversion program and revealed it to be well under way.

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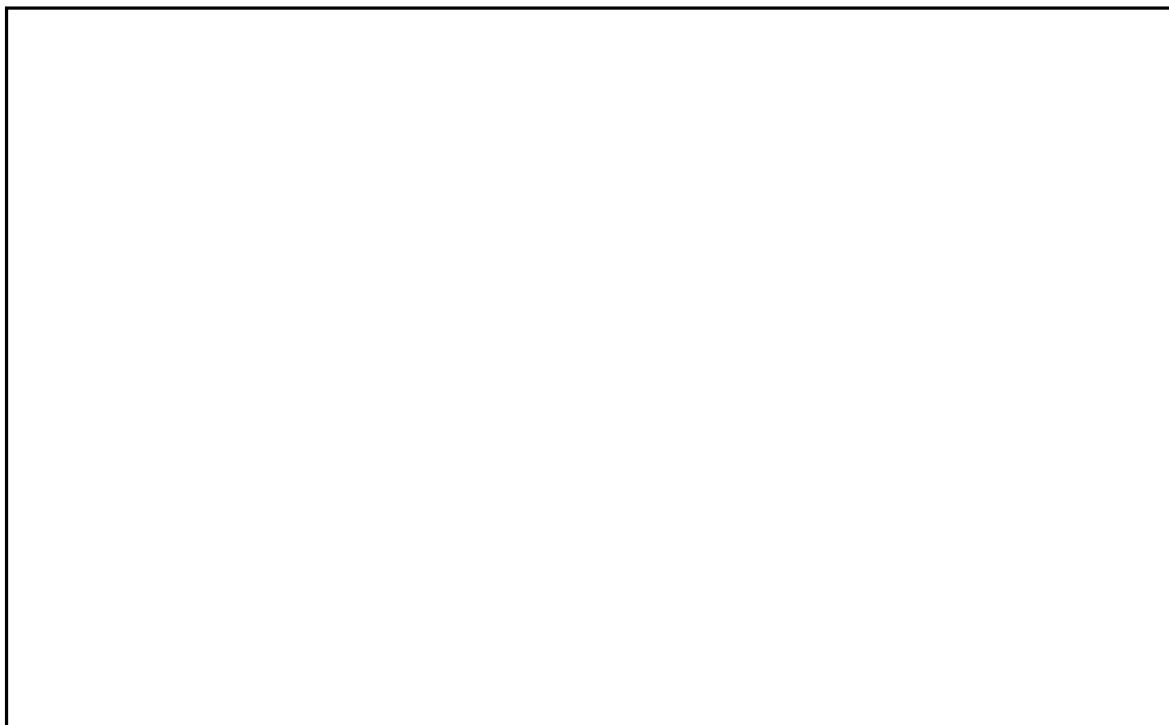
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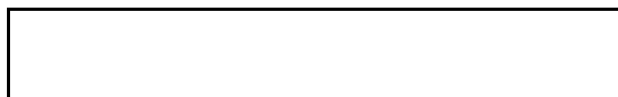
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In addition, three Kotlin Class DD are presently undergoing conversion from DD to DDG, two at Shipyard 202 and one at Shipyard 445. If the prototype Kotlin Class DDG which reportedly underwent conversion [] is included in the above totals, there are now two and possibly three completed Kotlin Class DDG, and three Kotlin Class DD are presently undergoing conversion to DDG.

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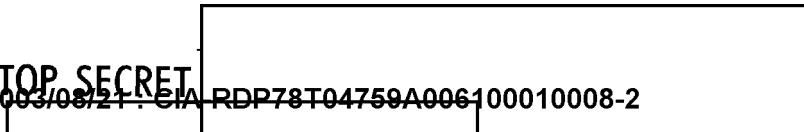


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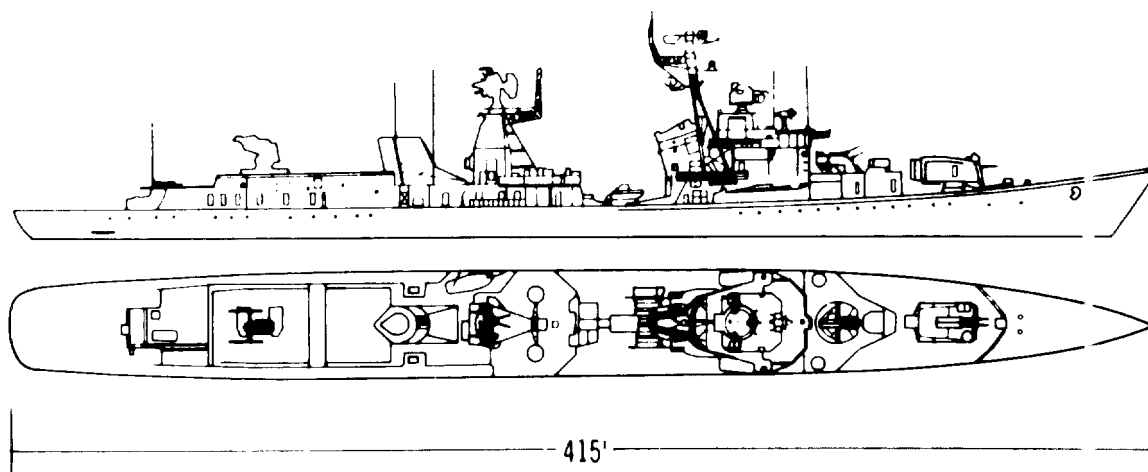
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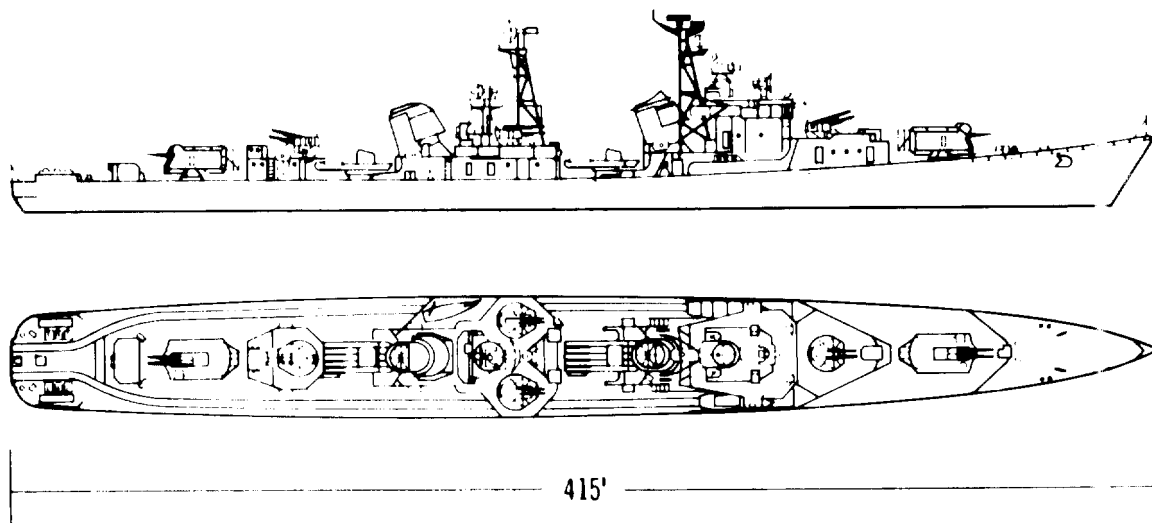
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KOTLIN CLASS



GUIDED MISSILE DESTROYER (DDG)



DESTROYER (DD)

FIGURE 1

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USSR

Significant Developments at the Plesetsk Missile and Space Center

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Analysis of developments over the past two years at the Plesetsk Missile and Space Center (PMSC) reveals that: (a) Launch Sites 11 and 14 are unique in Soviet launch site construction

launch facilities at Sites 11, 14, 15, 16, and 21 may all be designed for the same or similar missile systems, and thus may represent an extensive new R&D testing program at Plesetsk. There is no evidence of any similar launch positions at Tyuratam.

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Configuration of Sites 11 and 14. At Launch Site 11

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was first seen under construction and its launch positions appeared complete though we think they were completed somewhat earlier.

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Launch Site 14 appears similar to one-half (one soft pad and adjacent silo) of the H-shaped Site 11, and may prove to be identical. At Site 14, a silo has recently been identified under construction, but coverage to date is not good enough for us to determine positively if there is a soft launch position as well.

Similarities Between Sites 11, 14, 15, 16, and 21. The three silos under construction at Launch Site 15 have certain characteristics similar to those at Site 11. Each of these silos is separated from the others by approximately 100 meters, is circular, and has a thin rectangular protrusion located on one side. In relation to a missile transporter during the loading process, these protrusions will always be at right angles to and left of the silo. The silos at Site 15 have not progressed to the point where silo door rails can be observed and compared.

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Launch Site 21, which has two soft pads separated by 100 meters, is a companion to Site 15 (see Figure 3). The ancillary facilities at Site 21 appear to be almost identical to those at Site 15.

Launch Site 16, located 20 nautical miles to the west, is similar in appearance and layout to Site 21, having two soft launch positions separated by 100 meters. However, there is one major difference and that is in the site orientation. Site 16 is oriented 25/205 and Site 21 is oriented

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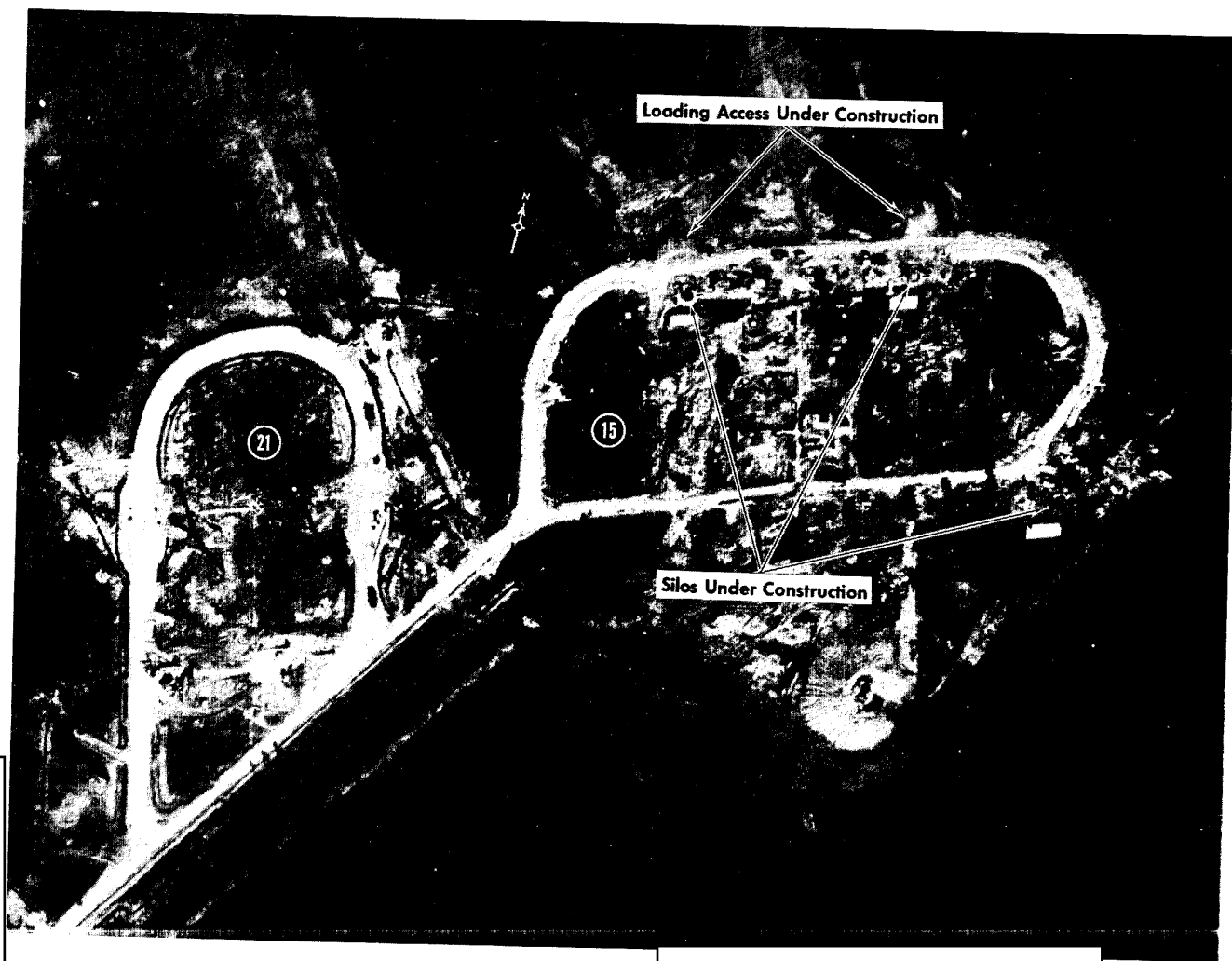


FIGURE 3 Plesetsk Sites 21 and 15

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[REDACTED] TOP SECRET [REDACTED]
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NORTH VIETNAMTin Mine Flooded by Monsoon Rains

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Black Shield photography [REDACTED] reveals that heavy monsoon rains during mid-August have caused flooding of the lower workings of the open pit mine (Figure 4a) associated with the Tin Tuc Smelter and Refinery, the sole tin producing facility in North Vietnam. The installation is located immediately east of Tin Tuc (22-39N 105-52E) and 18 nautical miles south of the Chinese border. Indications of recent flooding were also noted along the stream beds and roads in the immediate area.

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There is no evidence of activity at either the mine or the adjacent processing area [REDACTED]. This photography did reveal a new tailing pile [REDACTED] (Figure 4b), indicating that the mine was active [REDACTED]

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There is no interpretable photography available over this area during previous wet seasons to enable us to determine if the flooding in this area is a seasonal occurrence. The average precipitation for this area during the wet season of July and August is approximately ten inches per month.

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The Tin Tuc installation was largely rebuilt by the Russians in the 1950's. [REDACTED]

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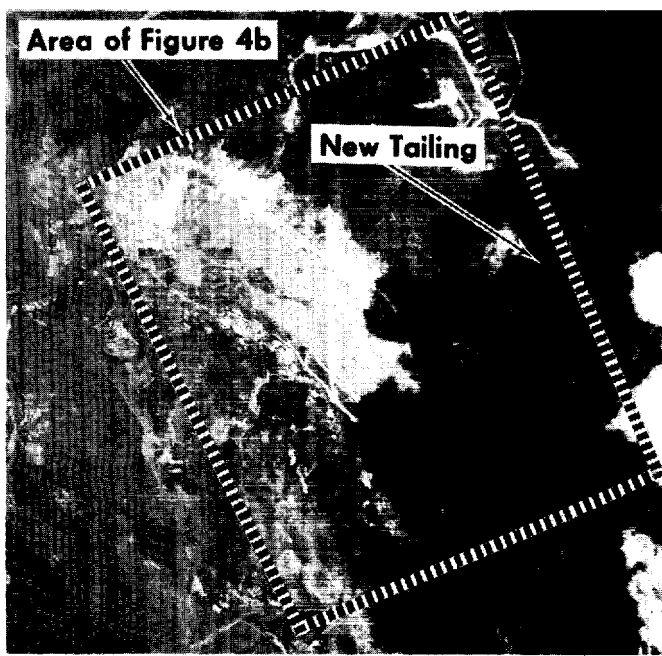


FIGURE 4a
Mine Flooded,



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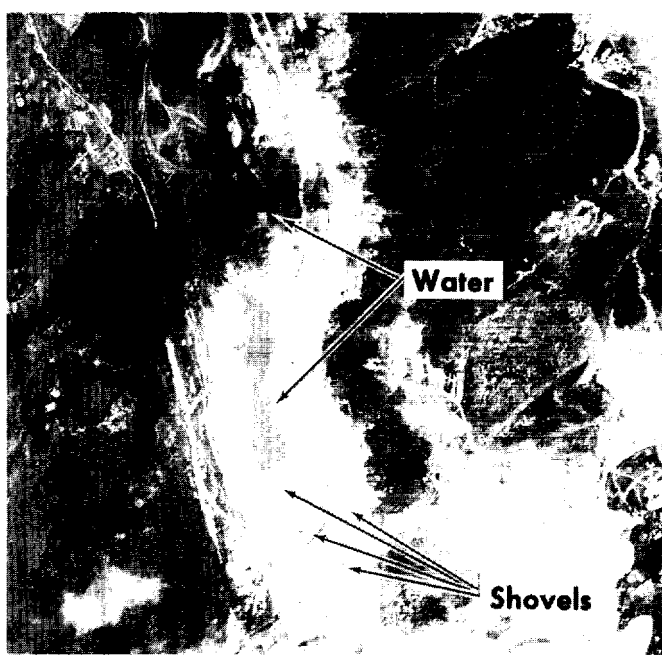


FIGURE 4b
Mine Active



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Tin Tuc Open Pit Tin Mine, North Vietnam

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GENERAL INFORMATION

Correction

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Correct Figure 1 of the Imagery Analysis Service Notes, 25 August 1967 [redacted] by switching the dates [redacted] of the two small photos on the left half of the page with the dates [redacted] of the two on the right.

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1. IAR 83020 [redacted] Base Plot and Facility Expansion Study, Shipyard 112, Gorkiy, USSR (TOP SECRET [redacted])

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3. IAR 83022 [redacted] Status of Military Forces Near the Sino-Soviet/Sino-Mongolian Border [redacted]

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4. IAR 85011 [redacted] Zirconium Production Plants in the Soviet Union (TOP SECRET [redacted])

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